



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : John L. Magnani et al.  
Application No. : 10/601,080  
Filed : June 19, 2003  
For : COMPOSITIONS AND METHODS FOR DIAGNOSIS AND  
THERAPY OF MEDICAL CONDITIONS INVOLVING  
ANGIOGENESIS

Art Unit : 1645  
Docket No. : 400068.413  
Date : January 13, 2004

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

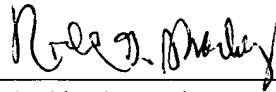
Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, Applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies and/or cover pages of the cited references are enclosed). As to any reference supplied, Applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with Applicants' duty to disclose all information that they are aware of which is believed relevant to the examination of the above-identified application, Applicants believe that their invention is patentable.

Due to the prohibitive amount of paper, Applicants note that only cover pages to U.S. Patents and Published U.S. Applications have been provided at this time. If the Examiner so wishes, full copies will be provided.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC



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Richard G. Sharkey, Ph.D.  
Registration No. 32,629

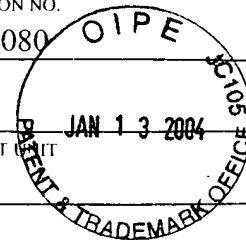
Enclosures:

Form PTO-1449 (17 Sheets)  
Cited References (118) other than U.S. Patents & Published U.S. Applications  
Cover Pages of 121 cited U.S. Patents & Published U.S. Applications

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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 400068.413	APPLICATION NO. 10/601,080
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645



## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,471,057	9/11/84	Koprowski et al.	436	518	
	AB	4,851,511	7/1989	Hakomori et al.	530	387	
	AC	4,859,769	8/22/89	Karlsson et al	536	53	
	AD	4,876,199	10/24/89	Hakomori	530	387	
	AE	4,925,796	5/1990	Bergh et al.	435	97	
	AF	4,946,830	08/1990	Pulverer et al.			
	AG	5,143,712	09/01/92	Brandley et al.	424	1.1	
	AH	5,151,360	09/29/92	Handa et al.	435	240.2	
	AI	5,211,937	5/18/93	Brandley et al.	424	1.1	
	AJ	5,268,364	12/07/93	Kojima et al.	514	25	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	EP 319253 A2	06/07/89	EPO		
	AL	EP 381 310 A1	08/08/90	EPO		
	AM	EP 408 859 A2	1/23/91	EPO		
	AN	EP 671407 A2	09/13/95	EPO		
	AO	WO 90/13300	11/15/90	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

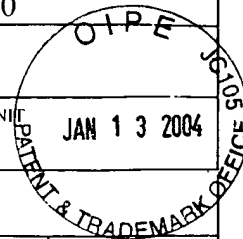
	AP	Abraham, W.M. et al., "Selectin Blockade Prevents Antigen-induced Late Bronchial Response and Airway Hyperresponsiveness in Allergic Sheep," <i>Am J. Respir Crit Care Med.</i> 159: 1205-1214, 1999.
	AQ	Baeckström et al., "Purification and Characterization of a Membrane-bound and a Secreted Mucin-type Glycoprotein Carrying the Carcinoma-associated Sialyl-Le <sup>a</sup> Epitope on Distinct Core Proteins," <i>J. Biol. Chem.</i> 266(32):21537-21547, 1991.
	AR	Bänteli, R. et al., "Potent E-Selectin Antagonists," <i>Helvetica Chimica Acta</i> 83(11): 2893-2907, 2000.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,304,640	04/19/94	Lasky et al.	536	23.5	
	BB	5,352,670	10/04/94	Venot et al.	514	54	
	BC	5,369,096	11/29/94	Yamada et al.	514	61	
	BD	5,412,123	05/02/95	Rao et al.	552	290	
	BE	5,444,050	08/22/95	Kogan et al.	514	25	
	BF	5,464,778	11/07/95	Cummings et al.	436	503	
	BG	5,464,815	11/07/95	Chamow et al.	514	8	
	BH	5,470,843	11/28/95	Stahl et al.	514	61	
	BI	5,484,891	01/16/96	Lasky et al.	530	387.3	
	BJ	5,486,536	01/23/96	Ward et al.	514	460	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	WO 91/19502	12/26/91	WIPO		
	BL	WO 92/01718	2/6/92	WIPO		
	BM	WO 92/07572	5/14/92	WIPO		
	BN	WO 94/26760	11/1994	WIPO		
	BO	WO 94/29477	12/1994	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

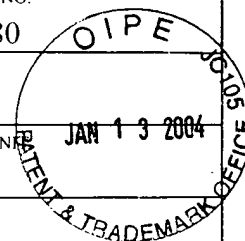
	BP	Berg et al., "A Carbohydrate Domain Common to Both Sialyl Le <sup>a</sup> and Sialyl Le <sup>x</sup> Is Recognized by the Endothelial Cell Leukocyte Adhesion Molecule ELAM-1," <i>J. Biol. Chem.</i> 266(23):14869-14872, 1991.
	BQ	Berg et al., "The Cutaneous Lymphocyte Antigen Is a Skin Lymphocyte Homing Receptor for the Vascular Lectin Endothelial Cell-Leukocyte Adhesion Molecule 1," <i>J. Exp. Med.</i> 174:1461-1466, 1991.
	BR	Bird and Kimber, "Oligosaccharides Containing Fucose Linked $\alpha(1-3)$ and $\alpha(1-4)$ to N-Acetylglucosamine Cause Decompaction of Mouse Morulae," <i>Devel. Biol.</i> 104:449-460, 1984.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,519,008	05/21/96	Rao et al.	514	26	
	CB	5,527,785	06/18/96	Bevilacqua et al.	514	56	
	CC	5,538,724	07/1996	Butcher et al.	424	152.1	
	CD	5,559,103	09/24/96	Gaeta et al.	514	54	
	CE	5,576,305	11/19/96	Ratcliffe	514	25	
	CF	5,580,858	12/03/96	Ippolito et al.	514	25	
	CG	5,580,862	12/03/96	Rosen et al.	514	61	
	CH	5,589,465	12/31/96	Ishida et al.	514	25	
	CI	5,604,207	02/18/97	DeFrees et al.	514	25	
	CJ	5,618,785	04/08/97	Heavner et al.	514	2	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK	WO 95/03059	02/02/95	WIPO		
	CL	WO 95/29681	11/09/95	WIPO		
	CM	WO 96/20204	07/04/96	WIPO		
	CN	WO 96/25418	08/22/96	WIPO		
	CO	WO 96/26950	09/06/96	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CP	Bjercke, J., "Rational Design and Synthesis of Oligosaccharide Mimetics: Selectin Antagonists as Cell Adhesion Inhibitors," <i>Abstracts of Papers, 210<sup>th</sup> ACS National Meeting</i> , American Chemical Society, Chicago, IL, August 20-24, 1995, MEDI-18.
	CQ	Bowen et al., "Characterization of a Human Homologue of the Murine Peripheral Lymph Node Homing Receptor," <i>Journal of Cell Biology</i> 109:421-427, 1989.
	CR	Brandley et al., "Carbohydrate Ligands of LEC Cell Adhesion Molecules," <i>Cell</i> 63:861-863, 1990.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,622,937	04/22/97	Kogan et al.	514	25	
	DB	5,639,734	06/17/97	Esko et al.	514	25	
	DC	5,646,123	07/08/97	Ippolito et al.	514	25	
	DD	5,646,248	07/08/97	Sawada et al.	530	350	
	DE	5,648,344	07/15/97	Brandley et al.	514	61	
	DF	5,654,282	08/05/97	Tang et al.	514	25	
	DG	5,654,412	08/05/97	Srivastava et al.	536	18.5	
	DH	5,658,880	08/19/97	Dasgupta et al.	514	8	
	DI	5,663,151	09/02/97	Martel et al.	514	25	
	DJ	5,679,321	10/21/97	Dasgupta et al.	424	9.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DK	WO 97/01335	01/16/97	WIPO		
	DL	WO 97/14707	04/24/97	WIPO		
	DM	WO 97/28173	08/07/97	WIPO		
	DN	WO 97/28174	08/07/97	WIPO		
	DO	WO 99/43353	09/02/99	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DP	Broquet et al., "Effect of Desipramine on a Glycoprotein Sialyltransferase Activity in C6 Cultured Glioma Cells," <i>J. Neurochem.</i> 54:388-394, 1990.
	DQ	Childs et al., "High-molecular-weight glycoproteins are the major carriers of the carbohydrate differentiation antigens I, i and SSEA-1 of mouse teratocarcinoma cells," <i>Biochem. J.</i> 215:491-503, 1983.
	DR	Corral et al., "Requirements for Sialic Acid on Neutrophils in a GMP-140 (PADGEM) Mediated Adhesive Interaction with Activated Platelets," <i>Biochem. Biophys. Res. Commun.</i> 172:1349-1356, 1990.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	5,679,644	10/21/97	Rao et al.	514	26	
	EB	5,686,426	11/11/97	Martel et al.	514	25	
	EC	5,693,621	12/02/97	Toepfer et al.	514	25	
	ED	5,695,752	12/09/97	Rosen et al.	424	94.61	
	EE	5,710,023	01/20/98	Collins et al.	435	69.1	
	EF	5,710,123	01/20/98	Heavner et al.	514	2	
	EG	5,723,583	03/03/98	Seed et al.	530	387.3	
	EH	5,728,685	03/17/98	Abbas et al.	514	53	
	EI	5,739,300	04/14/98	Toepfer et al.	536	4.1	
	EJ	5,747,463	05/05/98	Marinier et al.	514	25	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	EK	WO 02/22820	03/21/02	WIPO		
	EL	WO 02/062810	08/15/02	WIPO		
	EM					
	EN					
	EO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	EP	Datta and Takayama, "Isolation and purification of trehalose 6-mono- and 6,6'-di-corynomycolates from <i>Corynebacterium matruchotii</i> . Structural characterization of <sup>1</sup> H NMR," <i>Carbohydrate Research</i> 245: 151-158, 1993.
	EQ	Duijvestijn et al., "High Endothelial Differentiation in Human Lymphoid and Inflammatory Tissues Defined by Monoclonal Antibody HECA-452," <i>Am. J. Path.</i> 130:147-155, 1988.
	ER	Dupré, B. et al., "Glycomimetic Selectin Inhibitors: (α-D-Mannopyranosyloxy)methylbiphenyls," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 6(5): 569-572, 1996.

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400068.413APPLICATION NO.  
10/601,080**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

John L. Magnani et al

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GROUP ART UNIT

1645

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	FA	5,750,508	05/12/98	Dasgupta et al.	514	25	
	FB	5,753,617	05/19/98	Heavner et al.	514	9	
	FC	5,753,631	05/19/98	Paulson et al.	514	25	
	FD	5,763,413	06/09/98	Numata et al.	514	25	
	FE	5,763,582	06/09/98	Rao et al.	536	5	
	FF	5,789,385	08/04/98	Anderson et al.	514	25	
	FG	5,789,573	08/04/98	Baker et al.	536	24.5	
	FH	5,795,958	08/18/98	Rao et al.	530	331	
	FI	5,811,404	09/22/98	De Frees et al.	514	25	
	FJ	5,811,405	09/22/98	Toepfer et al.	514	25	
	FK	5,817,742	10/06/98	Toepfer et al.	528	328	
	FL	5,827,817	10/27/98	Larsen et al.	514	2	
	FM	5,827,837	10/27/98	Bevilacqua et al.	514	103	
	FN	5,830,871	11/03/98	Wong et al.	514	23	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FO					

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	FP	Edgington, "How Sweet It Is: Selectin-Mediating Drugs," <i>Biotechnology</i> 10: 383-389, 1992.
	FQ	Eggens et al., "A Role of Carbohydrate-Carbohydrate Interaction in the Process of Specific Cell Recognition During Embryogenesis and Organogenesis: A Preliminary Note," <i>Biochem. Biophys. Res. Commun.</i> 158(3):913-920, 1989.
	FR	Eggens et al., "Specific Interaction between Le <sup>x</sup> and Le <sup>x</sup> Determinants. A Possible Basis for Cell Recognition in Preimplantation Embryos and in Embryonal Carcinoma Cells," <i>J. Biol. Chem.</i> 264(16):9476-9484, 1989.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA	5,837,689	11/17/98	Anderson et al.	514	25	
	GB	5,837,690	11/17/98	Rao et al.	514	26	
	GC	5,840,679	11/24/98	Larsen et al.	514	8	
	GD	5,854,218	12/29/98	DeFrees	514	25	
	GE	5,858,983	01/12/99	Seed et al.	514	23	
	GF	5,858,994	01/12/99	Kretzschmar et al.	514	62	
	GG	5,880,091	03/09/99	Cummings et al.	514	8	
	GH	5,916,910	06/29/99	Lai	514	423	
	GI	5,919,768	07/06/99	Korgan et al.	514	25	
	GJ	5,919,769	07/06/99	Tsukida et al.	514	25	
	GK	5,962,422	10/05/99	Nagy et al.	514	25	
	GL	5,976,540	11/02/99	Rittershaus et al.	424	184.1	
	GM	5,977,080	11/02/99	Rosen et al.	514	25	
	GN	5,985,852	11/16/99	Nagy et al.	514	54	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	GO				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	GP	Ernst and Oehrlein, "Substrate and donor specificity of glycosyl transferases," <i>Glycoconjugate Journal</i> 16: 161-170, 1999.
	GQ	Fenderson et al., "A Multivalent Lacto-N-Fucopenataose III-Lysyllysine Conjugate Decompacks Preimplantation Mouse Embryos, While the Free Oligosaccharide is Ineffective," <i>J. Exp. Med.</i> 160:1591-1596, 1984.
	GR	Fenderson et al., "Coordinate Expression of X and Y Haptens during Murine Embryogenesis," <i>Devel. Biol.</i> 114:12-21, 1986.

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	HA	5,994,402	11/30/99	Rotstein et al.	514	547	
	HB	6,001,819	12/14/99	Simon et al.	514	54	
	HC	6,001,988	12/14/99	Parma et al.	536	24.3	
	HD	6,033,665	03/07/00	Yednock et al.	424	130.1	
	HE	6,037,333	03/14/00	Panjwani	514	62	
	HF	6,110,897	08/29/00	Unverzagt et al.	514	25	
	HG	6,111,065	08/29/00	Heavner et al.	530	300	
	HH	6,177,547	01/23/01	Cummings et al.	530	388.22	
	HI	6,121,233	09/19/00	Magnani et al.	514	8	
	HJ	6,124,267	09/26/00	Mc Ever et al.	514	25	
	HK	6,133,239	10/17/00	Handa et al.	514	25	
	HL	6,133,240	10/17/00	Taylor et al.	514	25	
	HM	6,136,790	10/24/00	Toepfer et al.	514	25	
	HN	6,169,077	01/02/01	Oehrlein	514	25	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	HO					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	HP	Fenderson et al., "The blood group I antigen defined by monoclonal antibody C6 is a marker of early mesoderm during murine embryogenesis," <i>Differentiation</i> 38:124-133, 1988.
	HQ	Fukushi et al., "Novel Fucolipids Accumulating in Human Adenocarcinoma. II. Selective Isolation of Hybridoma Antibodies That Differentially Recognize Mono-, Di-, and Trifucosylated Type 2 Chain," <i>J. Biol. Chem.</i> 259(7):4681-4685, 1984.
	HR	Fukushi et al., "Novel Fucolipids Accumulating in Human Adenocarcinoma. III. A Hybridoma Antibody (FH6) Defining a Human Cancer-Associated Difucoganglioside (VI <sup>3</sup> NeuAcV <sup>3</sup> III <sup>3</sup> Fuc <sub>2</sub> nLc <sub>6</sub> )," <i>J. Biol. Chem.</i> 259(16):10511-10517, 1984.

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<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	IA	6,187,754	02/13/01	Oehrlein	514	25	
	IB	6,193,973	02/27/01	Tuttle	424	195.1	
	IC	6,193,979	02/27/01	Rittershaus et al.	424	195.11	
	ID	6,197,752	03/06/01	Schmidt et al.	514	23	
	IE	6,225,071	05/01/01	Cummings et al.	435	7.24	
	IF	6,235,309	05/22/01	Nagy et al.	424	450	
	IG	6,280,932	08/28/01	Parma et al.	435	6	
	H	6,309,639	10/30/01	Cummings et al.	424	143.1	
	II	6,387,884	05/14/02	Magnani et al.	514	25	
	IJ	6,391,857	05/21/02	Magnani et al.	514	25	
	IK	6,407,135	06/18/02	Lai et al.	514	423	
	IL	6,465,434	10/15/02	Magnani et al.	514	23	
	IM	6,492,332	10/10/02	Demopulos et al.	514	12	
	IN	6,503,885	01/07/03	Kiso et al.	514	25	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	IO						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	IP	Gabijs et al., "Endogenous Tumor Lectins: Overview and Perspectives," <i>Anticancer Res.</i> 6:573-578, 1986.					
	IQ	Gallatin et al., "A cell-surface molecule involved in organ-specific homing of lymphocytes," <i>Nature</i> 304:30-34, 1983.					
	IR	Gooi et al., "Stage-specific embryonic antigen involves $\alpha$ 1 $\rightarrow$ 3 fucosylated type 2 blood group chains," <i>Nature</i> 292:156-158, 1981.					
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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645

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	JA	6,528,487	03/04/03	Heavner et al.	514	13	
	JB	2001/0046970	11/29/01	Nagy et al.	514	53	
	JC	2001/0051370	12/13/01	Bistrup et al.	435	193	
	JD	2002/0026033	02/28/02	Cummings et al.	530	322	
	JE	2002/0028205	03/07/02	Holgerson et al.	424	184.1	
	JF	2002/0031508	03/14/02	Wagner et al.	424	94.63	
	JG	2002/0040008	04/04/02	Wagner et al.	514	41	
	JH	2002/0132220	09/19/02	Berens et al.	435	1.1	
	JI	2002/0164336	11/07/02	Harrison et al.	424	146.1	
	JJ	2002/0164748	11/07/02	Bistrup et al.	435	193	
	JK	2002/0168366	11/14/02	Stewart et al.	424	146.1	
	JL	2003/0012787	01/16/03	Ashkenazi et al.	424	145.1	
	JM	2003/0012790	01/16/03	Ashkenazi et al.	424	178.1	
	JN	2003/0018181	01/23/03	Larsen et al.	536	23.4	

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					YES	NO
	JO					

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	JP	Hakomori et al., "Novel Fucolipids Accumulating in Human Adenocarcinoma. I. Glycolipids With Di- or Trifucosylated Type 2 Chain," <i>J. Biol. Chem.</i> 259(7):4672-4680, 1984.
	JQ	Hakomori et al., "The Hapten Structure of a Developmentally Regulated Glycolipid Antigen (SSEA-1) Isolated From Human Erythrocytes and Adenocarcinoma: A Preliminary Note," <i>Biochem. Biophys. Res. Comm.</i> 100(4):1578-1586, 1981.
	JR	Hakomori S., "Aberrant Glycosylation in Cancer Cell Membranes as Focused on Glycolipids: Overview and Perspectives," <i>Cancer Res.</i> 45:2405-2414, 1985.

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		FILING DATE June 19, 2003	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

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	KA	2003/0039683	02/27/03	Cantrell et al.	424	450	
	KB						

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					YES	NO
	KC					

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	KD	Handa et al., "Selectin GMP-140 (CD62; PADGEM) Binds to Sialosyl -Le <sup>a</sup> and Sialosyl-Le <sup>x</sup> , and Sulfated Glycans Modulate this Binding," <i>Biochemical and Biophysical Research Communication</i> 181(3):1223-1230, 1991.
	KE	Hansson and Zopf, "Biosynthesis of the Cancer-associated Sialyl-Le <sup>a</sup> Antigen," <i>Journal of Biological Chemistry</i> 260(16):9388-9392, 1985.
	KF	Hasegawa et al., "Synthesis of deoxy-L-fucose-containing sialyl Lewis X ganglioside analogues," <i>Carbohydrate Research</i> 257: 67-80, 1994.
	KG	Hasegawa et al., "Synthesis of sialyl Lewis X ganglioside analogues containing modified L-fucose residues," <i>Carbohydrate Research</i> 274: 165-181, 1995.
	KH	Holmes et al., "Enzymatic Basis for the Accumulation of Glycolipids with X and Dimeric X Determinants in Human Lung Cancer Cells (NCI-H69)," <i>J. Biol. Chem.</i> 260(12):7619-7627, 1985
	KI	Huse et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> 246:1275-1281, 1989.
	KJ	Hynes, R., "Integrins: A Family of Cell Surface Receptors," <i>Cell</i> 48:549-554, 1987.
	KK	Issekutz, T., "Inhibition of in Vivo Lymphocyte Migration of Inflammation and Homing to Lymphoid Tissues by the TA-2 Monoclonal Antibody. A Likely Role for VLA-4 in Vivo," <i>Journal of Immunology</i> 147:4178-4184, 1991.
	KL	Itai, S. et al., "Differentiation-dependent Expression of I and Sialyl I Antigens in the Developing Lung of Human Embryos and in Lung Cancers," <i>Cancer Research</i> 50: 7603-7611, 1990.

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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				YES	NO
LB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LC	Jeffrey et al., "Affinity Chromatography of Carbohydrate-Specific Immunoglobulins: Coupling of Oligosaccharides to Sepharose," <i>Biochem. Biophys. Res. Commun.</i> 62:608-613, 1975.
LD	Kannagi et al., "New Globoseries Glycosphingolipids in Human Teratocarcinoma Reactive with the Monoclonal Antibody Directed to a Developmentally Regulated Antigen, Stage-specific Embryonic Antigen 3," <i>J. Biol. Chem.</i> 258(14):8934-8942, 1983.
LE	Kannagi et al., "Stage-specific embryonic antigens (SSEA-3 and -4) are epitopes of a unique globo-series ganglioside isolated from human teratocarcinoma cells," <i>Embo J.</i> 2(12):2355-2361, 1983.
LF	Karaivanova et al., "Partial Characterization of Microsomal Sialyltransferase From Chicken Liver and Hepatoma Mc-29: II. Measurement of Enzyme Activities Utilizing Microsomal Glycoproteins as Exogenous Acceptors," <i>Cancer Biochem. Biophys.</i> 11:311-315, 1990.
LG	Kitagawa et al., "Characterization of Mucin-Type Oligosaccharides With the Sialyl-Le <sup>a</sup> Structure From Human Colorectal Adenocarcinoma Cells," <i>Biochem. Biophys. Res. Commun.</i> 178(3):1429-1436, 1991.
LH	Kitagawa et al., "Immunoaffinity Isolation of a Sialyl-Le <sup>a</sup> Oligosaccharide from Human Milk," <i>J. Biochem.</i> 104:591-594, 1988.
LI	Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, 1975.
LJ	Köhler and Milstein, "Derivation of specific antibody-producing tissue culture and tumor lines by cell fusion," <i>Eur. J. Immunol.</i> 6:511-519, 1976.
LK	Kojima and Hakomori, "Specific Interaction between Gangliotriaosylceramide (G <sub>g3</sub> ) and Sialosyllactosylceramide (G <sub>M3</sub> ) as a Basis for Specific Cellular Recognition between Lymphoma and Melanoma Cells," <i>J. Biol. Chem.</i> 264(34):20159-20162, 1989.
LL	Koprowski et al., "Colorectal Carcinoma Antigens Detected by Hybridoma Antibodies," <i>Somatic Cell Genetics</i> 5(6):957-972, 1979.

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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				YES	NO
MB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MC	Korgan, T.P. et al., "Novel Synthetic Inhibitors of Selectin-Mediated Cell Adhesion: Synthesis of 1,6-Bis[3-(3-carboxymethylphenyl)-r-(2- $\alpha$ -D-mannopyranosyloxy)phenyl]hexane (TBC1269)," <i>J. Med. Chem</i> 41:1099-1111, 1998.
MD	Korgan, T.P. et al., "Rational Design and Synthesis of Small Molecule, Non-oligosaccharide Selectin Inhibitors: ( $\alpha$ -D-Mannopyranosyloxy)biphenyl-Substituted Carboxylic Acids," <i>J. Med. Chem.</i> 38: 4976-4984, December 22, 1995.
ME	Kuzuoka, "Antitumor activity of murine monoclonal antibody NCC-ST-421," <i>Chem. Ab.</i> 115:27344v, 1991.
MF	Lamblin et al., "Primary Structure Determination of Five Sialylated Oligosaccharides Derived from Bronchial Mucus Glycoproteins of Patients Suffering from Cystic Fibrosis. The Occurrence of the NeuAc $\alpha$ (2 $\rightarrow$ 3)Gal $\beta$ (1 $\rightarrow$ 4)[Fuc $\alpha$ (1 $\rightarrow$ 3)]GlcNAc $\beta$ (1 $\rightarrow$ 6) Structural Element Revealed By 500-Mhz H NMR Spectroscopy," <i>Journal of Biological Chemistry</i> 259(14):9051-9058, 1984.
MG	Larsen et al., "PADGEM-Dependent Adhesion of Platelets to Monocytes and Neutrophils Is Mediated by a Lineage-Specific Carbohydrate, LNF III (CD15), <i>Cell</i> 63:467-474, 1990.
MH	Lindenberg et al., "Carbohydrate binding properties of mouse embryos," <i>J. Reprod. Fert.</i> 89:431-439, 1990.
MI	Lipartiti et al., "Monosialoganglioside GM1 Reduces NMDA Neurotoxicity in Neonatal Rat Brain," <i>Experimental Neurology</i> 113:301-305, 1991.
MJ	Lowe et al., "A transfected human fucosyltransferase cDNA determines biosynthesis of oligosaccharide ligand(s) for endothelial-leukocyte adhesion molecule I," <i>Biochem. Soc. Trans.</i> 19(3):649-653, 1991.
MK	Lowe et al., "ELAM-1-Dependent Cell Adhesion to Vascular Endothelium Determined by a Transfected Human Fucosyltransferase cDNA," <i>Cell</i> 63:475-484, 1990.
ML	Macher et al., "A Novel Carbohydrate, Differentiation Antigen on Fucogangliosides of Human Myeloid Cells Recognized by Monoclonal Antibody VIM-2," <i>Journal of Biological Chemistry</i> 263(21):10186-10191, 1988.

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				APPLICANTS John L. Magnani et al			
				FILING DATE June 19, 2003		GROUP ART UNIT 1645	
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<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	NA						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	NC			Magnani et al., "Identification of the Gastrointestinal and Pancreatic Cancer-associated Antigen Detected by Monoclonal Antibody 19-9 in the Sera of Patients as a Mucin," <i>Cancer Res.</i> 43:5489-5492, 1983.			
	ND			Magnani et al., "A Monoclonal Antibody-defined Antigen Associated with Gastrointestinal Cancer Is a Ganglioside Containing Sialylated Lacto-N-fucopentaose II," <i>Journal of Biological Chemistry</i> 257(23):14365-14369, 1982.			
	NE			Magnani, J., "Carbohydrate Sequences Detected By Murine Monoclonal Antibodies," <i>Chemistry and Physics of Lipids</i> 42:65-74, 1986.			
	NF			Mulligan and Berg, "Selection for animal cells that express the <i>Escherichia coli</i> gene coding for xanthine-guanine phosphoribosyltransferase," <i>Proc. Natl. Acad. Sci. USA</i> 78:2072-2076, 1981.			
	NG			Nicolaou et al., "Total Synthesis of the Tumor-Associated Le <sup>x</sup> Family of Glycosphingolipids," <i>J. Amer. Chem. Soc.</i> 112:3693-3695, 1990.			
	NH			Nudelman et al., "Novel Fucolipids of Human Adenocarcinoma: Disialosyl Le <sup>a</sup> Antigen (III <sup>4</sup> FucIII <sup>6</sup> NeuAcIV <sup>3</sup> NeuAcLc <sub>4</sub> ) of Human Colonic Adenocarcinoma and the Monoclonal Antibody (FH7) Defining This Structure," <i>J. Biol. Chem.</i> 261:5487-5495, 1986.			
	NI			Orhlein, R., "Carbohydrates and Derivatives as Potential Drug Candidates with Emphasis on the Selectin and Linear-B Area," <i>Mini Reviews in Medicinal Chemistry</i> 1: 349-361, 2001.			
	NJ			Palcic et al., "Enzymic Synthesis of Oligosaccharides Terminating in the Tumor-Associated Sialyl-Lewis-a Determinant," <i>Carbohydr. Res.</i> 190:1-11, 1989.			
	NK			Palcic et al., "Regulation of N-Acetylglucosaminyltransferase V Activity. Kinetic Comparisons of Parental, Rous Sarcoma Virus-Transformed BHK, and L-Phytohemagglutinin-Resistant BHK Cells Using Synthetic Substrates and an Inhibitory Substrate Analog," <i>J. Biol. Chem.</i> 265:6759-6769, 1990.			
	NL			Palcic et al., "A Bisubstrate Analog Inhibitor for $\alpha(1\rightarrow2)$ -Fucosyltransferase," <i>J. Biol. Chem.</i> 264:17174-17181, 1989.			
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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645

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				YES	NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	OC	Palma-Vargas, J.M. et al., "Small-Molecule Selectin Inhibitor Protects Against Liver Inflammatory Response After Ischemia and Reperfusion," <i>J. Am. Coll. Surg.</i> 185: 365-372, 1997.
	OD	Phillips et al., "ELAM-1 Mediates Cell Adhesion by Recognition of a Carbohydrate Ligand, Sialyl-Le <sup>x</sup> ," <i>Science</i> 250:1130-1132, 1990.
	OE	Picker et al., "The Neutrophil Selectin LECAM-1 Presents Carbohydrate Ligands to the Vascular Selectins ELAM-1 and GMP-140," <i>Cell</i> 66:921-933, 1991.
	OF	Prokazova et al., "Sialylated lactosylceramides. Possible inducers of non-specific immunosuppression and atherosclerotic lesions," <i>European Journal of Biochemistry</i> 172:1-6, 1988.
	OG	Rauvala et al., "Studies on Cell Adhesion and Recognition. I. Extent and Specificity of Cell Adhesion Triggered by Carbohydrate-reactive Proteins (Glycosidases and Lectins) and by Fibronectin," <i>J. Cell Biol.</i> 88:127-137, 1981.
	OH	Rice and Bevilacqua, "An Inducible Endothelial Cell Surface Glycoprotein Mediates Melanoma Adhesion," <i>Science</i> 246:1303-1306, 1989.
	OI	Ruoslahti and Pierschbacher, "New Perspectives in Cell Adhesion: RGD and Integrins," <i>Science</i> 238:491-497, 1987.
	OJ	Sakurai et al., "Selection of a Monoclonal Antibody Reactive with a High-Molecular-Weight Glycoprotein Circulating in the Body Fluid of Gastrointestinal Cancer Patients," <i>Cancer Research</i> 48:4053-4058, 1988.
	OK	Sastry et al., "Cloning of the immunological repertoire in <i>Escherichia coli</i> for generation of monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific cDNA library," <i>Proc. Natl. Acad. Sci. USA</i> 86:5728-5732, 1989.
	OL	Shitara et al., "Application of Anti-Sialyl Le <sup>a</sup> Monoclonal antibody, KM231, for Immunotherapy of Cancer," <i>Anticancer Res.</i> 11:2003-2014, 1991.

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		FILING DATE June 19, 2003	GROUP ART UNIT 1645

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PA						

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				YES	NO
PB					

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PC	Siuzdak et al., "Examination of the Sialyl Lewis X - Calcium Complex By Electrospray Mass Spectrometry," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 4(24): 2863-2866, 1994
PD	Stanley and Atkinson, "The LEC11 Chinese Hamster Ovary Mutant Synthesizes N-Linked Carbohydrates Containing Sialylated, Fucosylated Lactosamine Units. Analysis By One- and Two-Dimensional H NMR Spectroscopy," <i>J. Biol. Chem.</i> 263(23):11374-11381, 1988.
PE	Stephens and Cockett, "The construction of highly efficient and versatile set of mammalian expression vectors," <i>Nucleic Acids Research.</i> 17:7110, 1989.
PF	Streeter et al., "Immunohistologic and Functional Characterization of a Vascular Addressin Involved in Lymphocyte Homing into Peripheral Lymph Nodes," <i>Journal of Cell Biology</i> 107: 1853-1862, 1988.
PG	Stroud et al., "Extended Type 1 Chain Glycosphingolipids: Dimeric Le <sup>a</sup> (III <sup>a</sup> V <sup>a</sup> Fuc <sub>2</sub> Lc <sub>6</sub> ) as Human Tumor-associated Antigen," <i>J. Biol. Chem.</i> 266(13):8439-8446, 1991.
PH	Svenson and Lindberg, "Coupling of Acid Labile <i>Salmonella</i> Specific Oligosaccharides to Macromolecular Carriers," <i>J. Immunol. Meth.</i> 25:323-335, 1979.
PI	Takada et al., "Adhesion of Human Cancer Cells to Vascular Endothelium Mediated by a Carbohydrate Antigen, Sialyl Lewis A <sup>1</sup> ," <i>Biochem. Biophys. Res. Commun.</i> 179(2):713-719, 1991.
PJ	Takeichi, M., "Cadherins: a molecular family essential for selective cell-cell adhesion and animal morphogenesis," <i>Trends Genet.</i> 3(8):213-217, 1987.
PK	Thoma, G. et al., "A readily Available, Highly Potent E-Selectin Antagonist," <i>Angew. Chem. Int. Ed.</i> 40(19): 3644-3647, 2001.
PL	Tilton, R.G., "Exdotoxin-Induced Leukocyte Accumulation in Aqueous Fluid of Rats is Decreased by a Small Molecule Selectin," <i>Investigative Ophthalmology &amp; Visual Science</i> 37(3): S918, Abstract No. 4227, February 15, 1996.

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS John L. Magnani et al	
		FILING DATE June 19, 2003	GROUP ART UNIT 1645

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QB					

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QC	Trouet et al., "A covalent linkage between daunorubicin and proteins that is stable in serum and reversible by lysosomal hydrolases, as required for a lysosomotropic drug-carrier conjugate: <i>In vitro</i> and <i>in vivo</i> studies," <i>Proc. Natl. Acad. Sci. USA</i> 79:626-629, 1982.
QD	Tyrrell et al., "Structural requirements for the carbohydrate ligand of E-selectin," <i>Proc. Natl. Acad. Sci. USA</i> 88:10372-10376, 1991.
QE	Walz et al., "Recognition by ELAM-1 of the Sialyl-Le <sup>x</sup> Determinant on Myeloid and Tumor Cells," <i>Science</i> 250:1132-1135, 1990.
QF	Ward and Mulligan, "Blocking of adhesion molecules in vivo as anti-inflammatory therapy," <i>Immunology</i> 1: 165-171, 1994.
QG	Whisler and Yates, "Regulation of Lymphocyte Responses By Human Gangliosides. I. Characteristics of Inhibitory Effects and the Induction of Impaired Activation," <i>Journal of Immunology</i> 125(5):2106-2111, 1980.
QH	Zhou et al., "The Selectin GMP-140 Binds to Sialylated, Fucosylated Lactosaminoglycans on Both Myeloid and Nonmyeloid Cells," <i>Journal of Cell Biology</i> 115(2):557-564, 1991.
QI	Zopf et al., "Affinity Purification of Antibodies Using Oligosaccharide-Phenethylamine Derivatives Coupled to Sepharose," <i>Meth. Enzymol.</i> 50:171-175, 1978.
QJ	
QK	
QL	

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